

Anode Half-Cell Reaction: $\text{CH}_3\text{OH} + \text{H}_2\text{O} \longrightarrow \text{CO}_2 + 6\text{H}^+ + 6\text{e}^-$

Cathode Half-Cell Reaction: $\text{O}_2 + 4\text{H}^+ + 4\text{e}^- \longrightarrow 2\text{H}_2\text{O}$

Overall Cell Reaction: $\text{CH}_3\text{OH} + 1.5 \text{O}_2 \longrightarrow \text{CO}_2 + 2\text{H}_2\text{O}$

FIG. 1

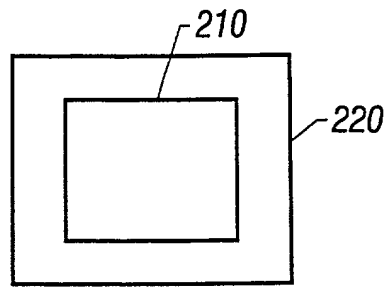


FIG. 2A

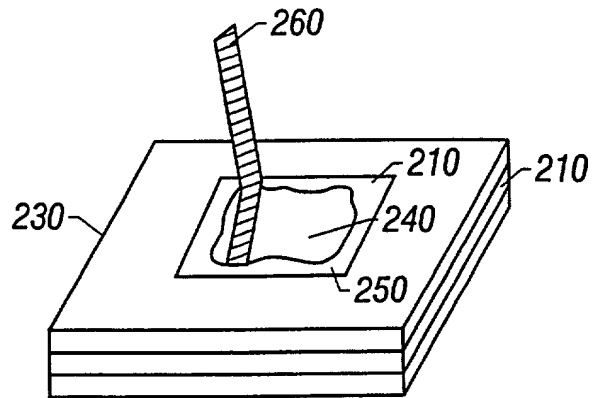


FIG. 2B

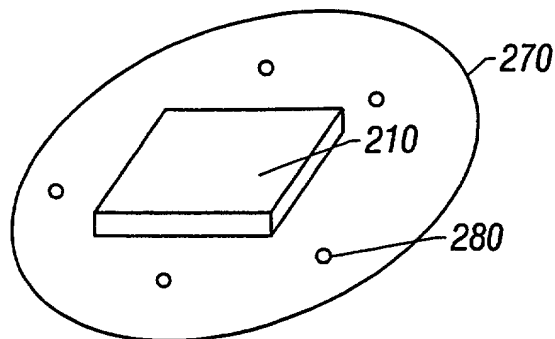


FIG. 2C

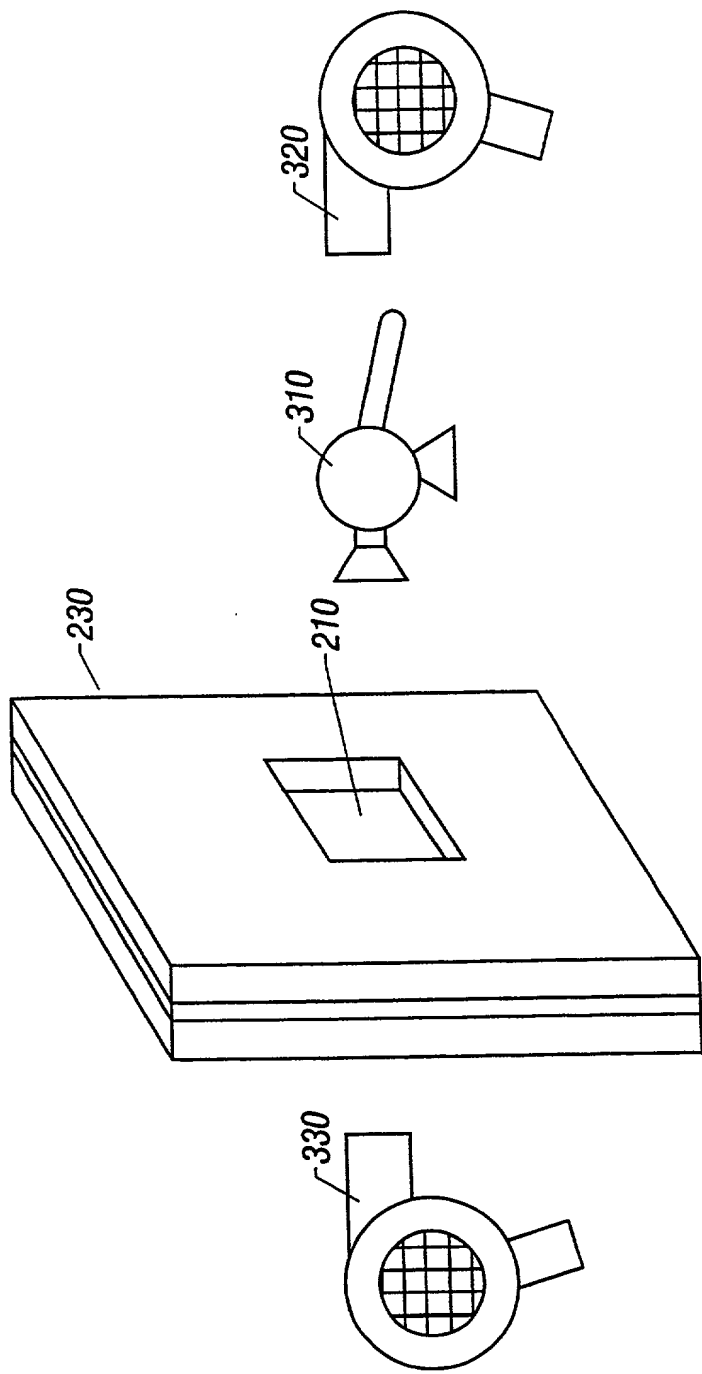


FIG. 3

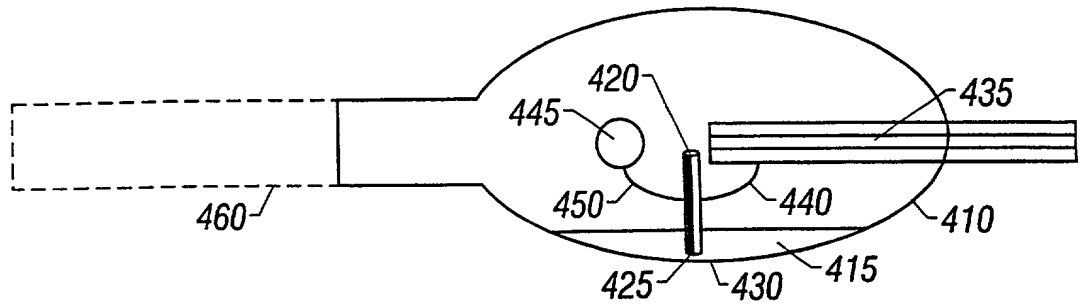


FIG. 4A

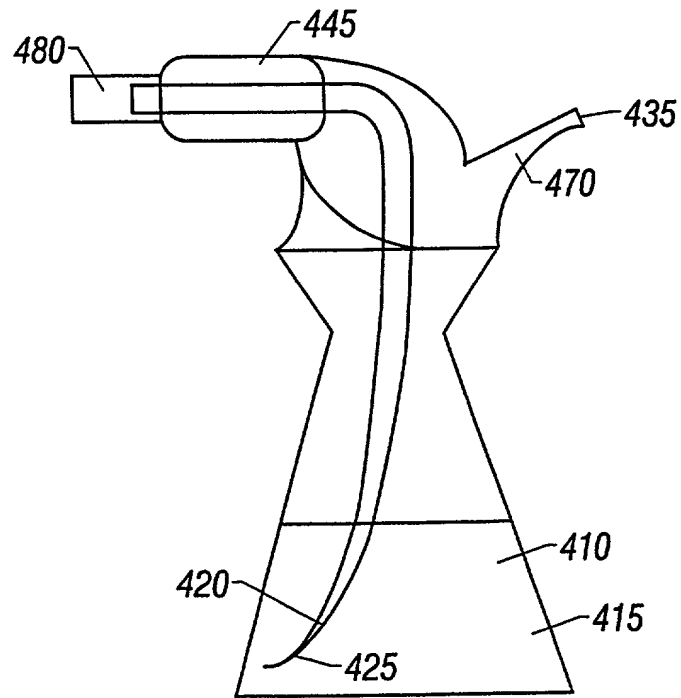


FIG. 4B

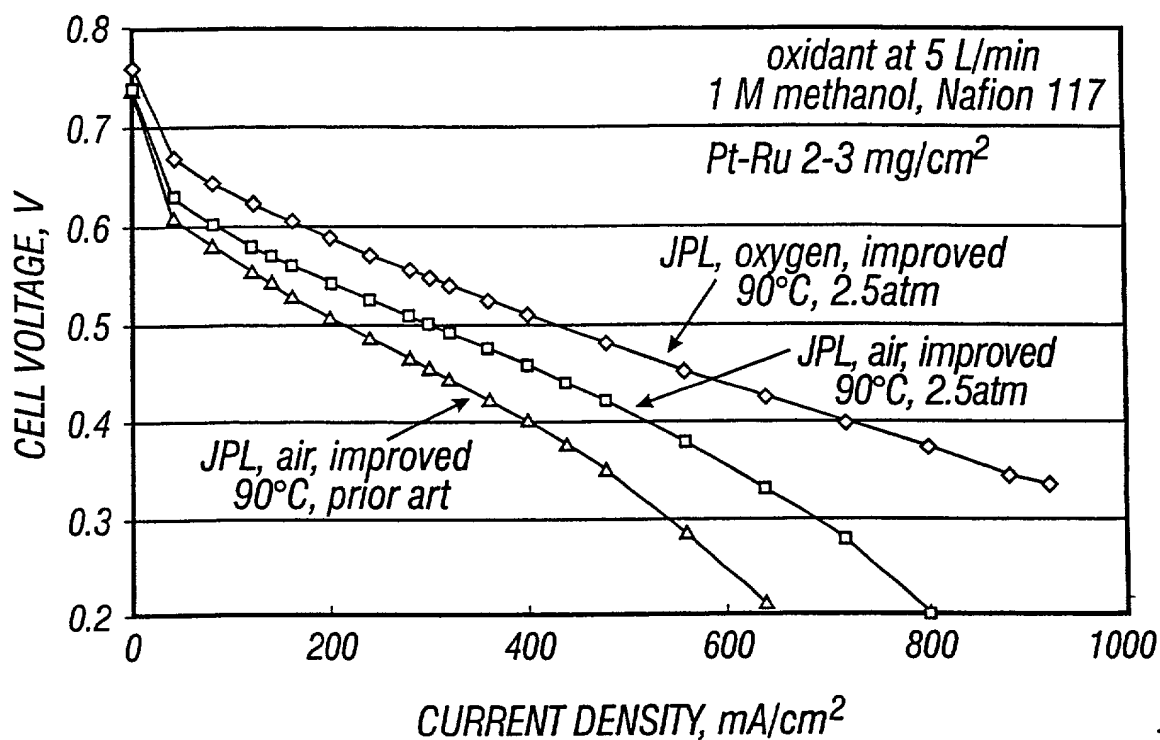


FIG. 5A

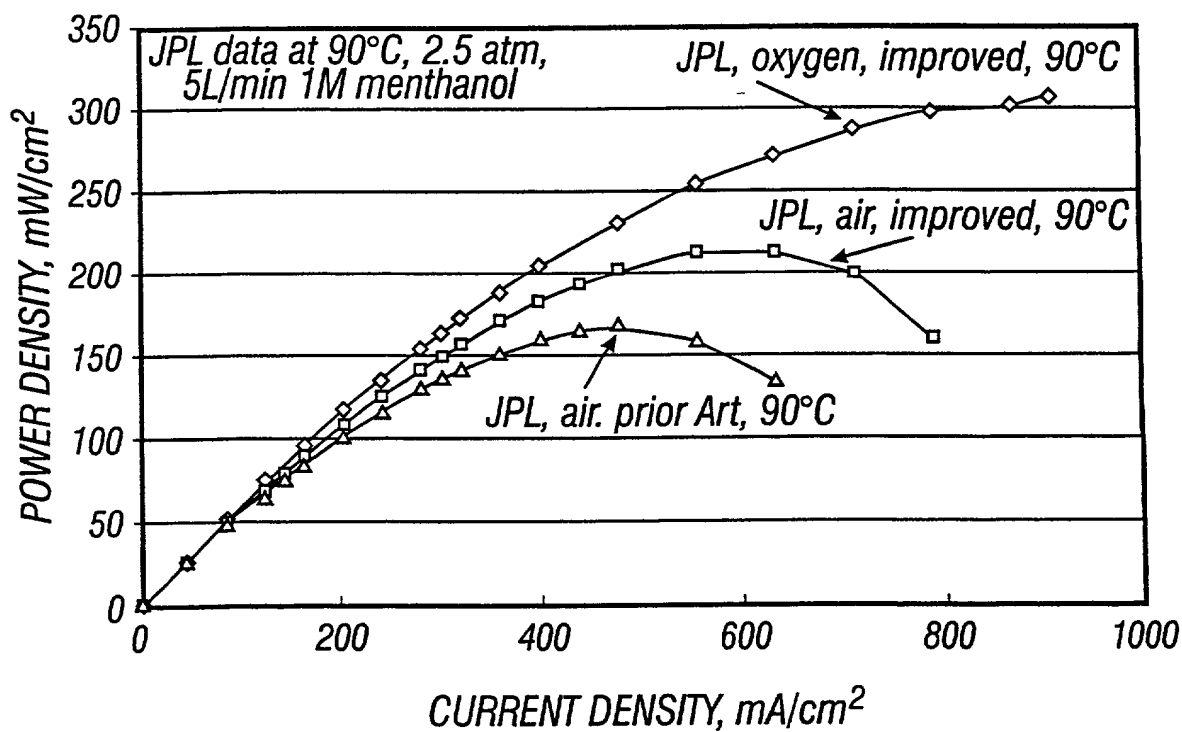


FIG. 5B

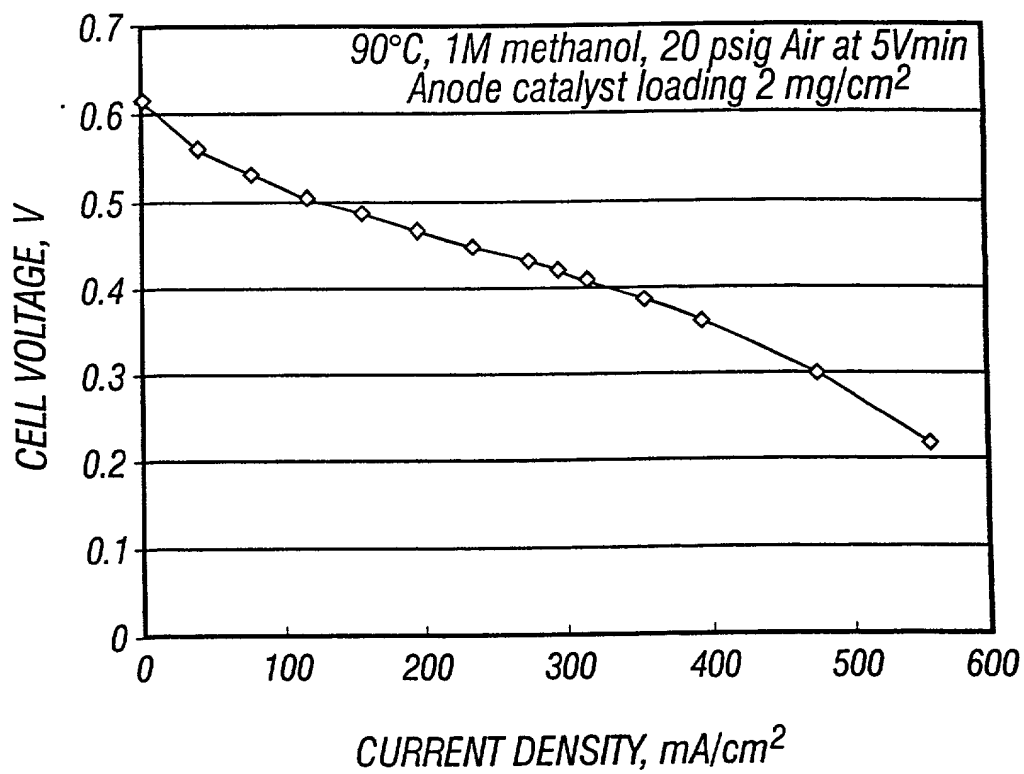


FIG. 6